INSTALLATION INSTRUCTIONS AND OWNERS MANUAL

Overhead Lifter Operator

IMPORTANT PLEASE READ THESE INSTRUCTIONS CAREFULLY PRIOR TO COMMENCING THE INSTALLATION OF THE OPERATOR UNIT

This Automatic Opener has been designed to provide years of trouble free use.
The opener will perform efficiently only if it is installed and operated properly

CAUTION

READ THESE IMPORTANT SAFETY RULES FIRST
Keep garage door balanced. Sticking or binding doors must be repaired. Garage doors, door springs, brackets and their hardware are under extreme tension and can cause serious personal injury. **Do not attempt adjustment.** Call for professional garage door service.

DANGER

Do not wear rings watches or loose clothing while installing or servicing a garage door operator.

Installation and wiring must be in compliance with your local building and electrical codes. Connect the power cord only to properly earthed mains.

CAUTION

The safety reverse system test is very important. Your garage door must reverse when obstructed on closing. Failure to properly adjust the operator may result in serious personal injury from a closing garage door. Repeat the test once a month and make any needed adjustments. (See Sensitivity adjustment).

This unit should not be installed in a damp or wet space.

Use the manual release lever to disengage the motor drive ONLY when the drive is switched OFF and, if possible when the door is fully closed.

CAUTION

Do not use the force adjustments to compensate for a binding or sticking garage door. Excessive force will interfere with the proper operation of the Safety Reverse System or damage the garage door.

Disengage all existing garage door locks to avoid damage to garage door.

Install the Push Buttons in a location where the garage door is visible but out of the reach of children. Do not allow children to operate push button(s) or remote control(s). Serious personal injury from a closing garage door may result from misuse of the operator.

CAUTION: Activate operator only when the door is in full view free of obstructions and operator is properly adjusted. No one should enter or leave the garage while the door is in motion. Do not allow children to play near the door.

DANGER

Disconnect electric power to the garage door operator before making repairs or removing covers.

IMPORTANT: Fix the caution label supplied to the rear of the garage door as a reminder of safe operating procedures.

PRE-INSTALLATION NOTES

Check that there is sufficient Headroom and back clearances to fit the Operator Unit.

Headroom required is 50mm above of the door in the open position or lifting equipment, which ever is the higher.

If the operator is being fitted at the same time as the new door installation, read these instructions in conjunction with the door installation instructions.

If the operator is being retrofitted, make sure the door operates smoothly and is properly balanced.

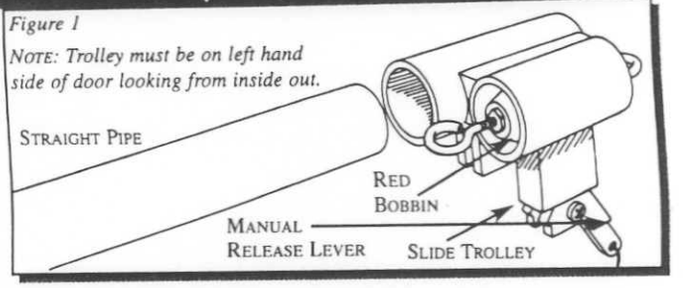
N.B. Special care should be taken if de-tensioning of the door is required.

IF THERE ARE ANY PROBLEMS, PLEASE CONTACT YOUR LOCAL SUPPLIER OF THIS PRODUCT

Installation Instructions - Assembly of Shaft

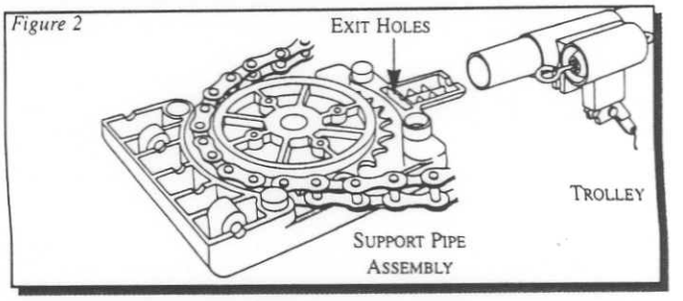
STEP 1
Slide Trolley Assembly on to Shaft.
Feed Electric Cable for Push Button and optional Photo Eye Protection down centre of shaft.
Thread Cables through hole in centre of main body.
Allow Cable to have sufficient length to be attached to Logic Board in cover. Figure 10 and 12.
Slide Shaft into main housing.

Figure 1


NOTE: Trolley must be on left hand side of door looking from inside out.
STRAIGHT PIPE
RED BOBBIN
MANUAL RELEASE LEVER
SLIDE TROLLEY

STEP 2
Separate Front Support Assembly to expose Chain Sprocket.
Electric Cables to be placed in groove. utilising holes in plastic assembly for exit.
Place Chain around Sprocket in Front Support Assembly.
Assemble other half of Support Assembly.
Slide Front Support Assembly into Shaft.

Figure 2



STEP 3
Attach Chain from Front Support Assembly to trolley.
Place Chain around Sprocket at main body. (Refer Figure 3a) and attach to trolley Assembly (Figure 3).
Tighten Bolts so that Chain is tensioned. Do not over tension.
Tighten Lock Nuts. Make sure the teeth of both sprockets are engaged in the chain and the chain is not twisted.

Figure 3

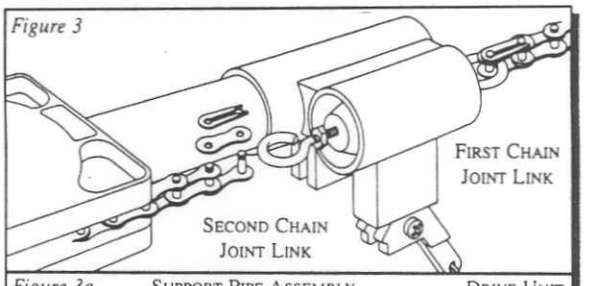
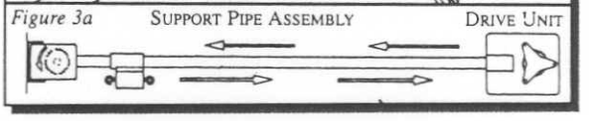


Figure 3a



Mounting Operator – Sectional Door

STEP 1
Open door and find highest point of travel of top panel using level. Transfer this height to the lintel, then mark a line (50mm) above this point. If possible, the Operator should be attached to the lintel at the centre of the opening. (As per Figure 4).

Figure 4

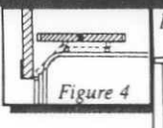
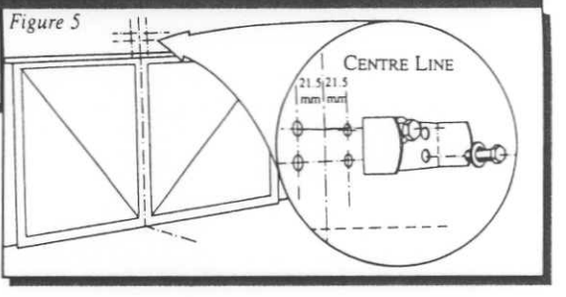


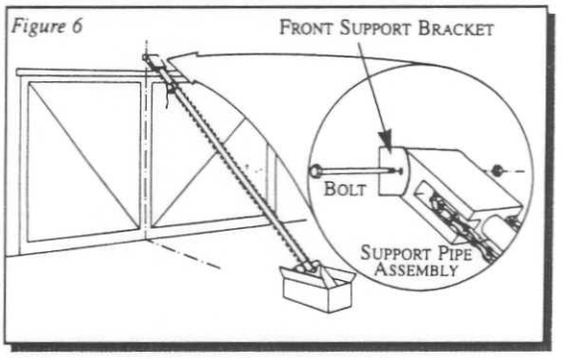
Figure 5



STEP 2
Attach Front Support Brackets to lintel (as per Figure 5).
Note: This Bracket will need to be fastened to solid material.

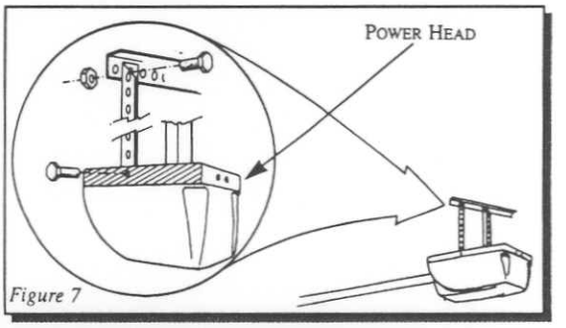
STEP 3
With the Front Support Bracket firmly secured, attach the Front Support Bracket using the 1 15mm bolt and nut supplied.
Note: Leave Control Box in cardboard box for protection.

Figure 6



STEP 4
Raise Operator from ground and support in a horizontal position. Use of ladder and packing is advisable. Then open the door allowing the Operator to rest on the door panel with a scrap piece of timber no thicker than 25mm to support the weight. Secure the Operator to the ceiling using Perforated Angle *(Not supplied)*.
Note: The Operator must be securely fastened to the ceiling. Failure to do this may cause Operator failure with the possibility of serious injury to person/s or property.

Figure 7



STEP 5

Std Headroom

Secure Door Bracket to stile in centre of door so that pivot point is level with shaft of outer rollers. Figure 8.

Limit Headroom

Secure Door Bracket to stile at the top of door. Only use Straight Arm to fix to trolley slide.

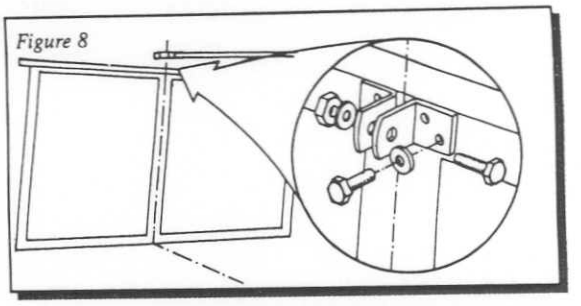


Figure 8

STEP 6

Assemble bent and straight arm with nuts and bolts supplied (Std Headroom only) and attach to door brackets and carriage slide. Figure 9.

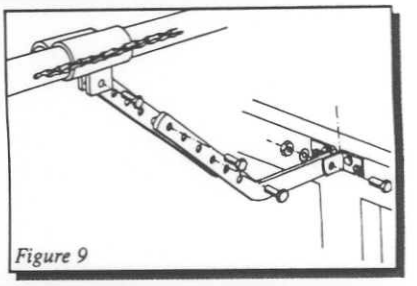


Figure 9

Setting Top and Bottom Limits

STEP 1

Remove two screws from Control Box Cover (See Figure 10).

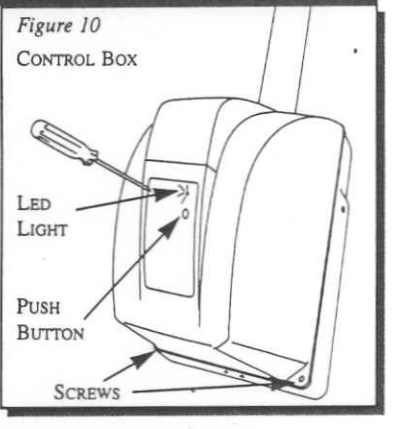


Figure 10
CONTROL BOX

STEP 2

Top limit cam "T" controls open position of door. Bottom limit cam "B" controls closed position of door (See Figure 11). Slightly loosen the three retaining screws so that the cams can be easily moved (See Figure 11).

STEP 3

Push Button on Control Box, until red Tensioning Assembly is half way along shaft. Move door so that Trolley Assembly engages red Tensioning Assembly. Lock in by moving red toggle.

STEP 4

Push Button on Control Box, making sure to watch direction of cam. Adjust cam to desired open or closed position depending on travel of Trolley Assembly. Push Button on Control Box to drive door in opposite direction. Adjust cam to suit.

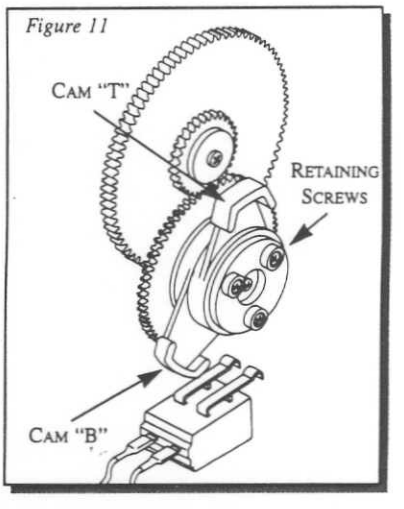


Figure 11

STEP 5

Tighten the three retaining screws so that the cams will not move.

STEP 6

Check up and down stop positions by pressing the button on the Control Box lever (Figure 10) Allow door to travel full cycle.

STEP 7

If you are achieving these stop positions then replace the Control Box Cover plate. If not then reset the limit cams (Steps 2 to 7) after first turning off the mains power.

WARNING! - Do not run door on power through its full travel until the limits are correctly set.

Auto Close Option

This operator has been designed with an Auto Close Option. If required, before re-assembling Control Box Lid by changing Dill Switch setting on the Logic Board. The following can be achieved: (Refer Figure 12).

Dill Switch Number	3	4
No Auto Close	Off	Off
Auto Close After 30 sec	On	Off
Auto Close After 60 sec	Off	On
Auto Close After 90 sec	On	On

The optional Photo Eye Protection must be used for the above option.

Fault Finding

Door Will Not Operate From

A) Push Button on Power Head Box

- Check power is on to Power Head (Red LED illuminated).
- IF NOT, check mains plug and fuse.
- Motor wiring connections properly engaged.
- Manual release lever in "engaged" position.
- Limit Switch cams correctly set, i.e. upper Limit Switch for fully open position, lower Limit Switch for fully closed position.
- Move door manually to half closed position and try again.
- Try operation with Hand Transmitter.
- Try operation with Wall Push Button.

B) On Hand Transmitter

- Check door operates correctly using the Push Button on Power Head, to prove system is okay.
- Try recoding Transmitter.
- Check battery in Transmitter is correctly fitted. L.E.D. should illuminate.
- Try new battery.
- Move aerial manually and try in different orientations, keeping it away from steel structures and electrical cables.

Door Operates But Fail To Fully Open Or Reverses Before Closing

- Check manual operation for correct balance, not binding. Adjust if necessary.
- Spray silicone lubricant into tracks. Do not grease.
- Check/adjust safety sensitivity setting.
- Check limits.

Bangs Hard On Ground And Reverses When Fully Shut

- Check top Limit Switch setting. Adjust if necessary.

Short Range Remote Control

- Remote Control should give minimum of 6m range.
- Check battery is correctly fitted in Transmitter.
- Try new battery.
- Move aerial and try in different orientations, keeping away from steel structures and electrical cables.

Door Operates But Fails To Fully Open But Reverses To Closed Position

- Change Motor Wire (Spade Connectors).
- Reset limits.
- Readjust Sensitivity Adjustment.

Power Failure

To disengage

- Pull manual release lever (red in colour) forward (refer fig 1).

To engage

- Push manual release lever backwards.
- Push the slide trolley until it clicks into place over the red bobbin (refer fig 1).

Sensitivity Adjustment

This unit has been factory pre-set at 50% sensitivity. If more sensitivity is required, rotate adjustment knob (with No 1 Phillips Screw Driver) in a clockwise rotation until desired effect. If more downward force is required, turn adjustment knob anti-clockwise. Refer Figure 10. Do not turn knob past 45° in either direction as damage will be caused to the sensitivity adjustment pot.

Note: This reversing system should be used in conjunction with our optional Photo Eye Protection.

On larger doors, you might be required to use the heavier option overload facility for up travel, if so, refer Figure 12.
Remove 2 screws from Control Cover to access circuit board, then locate connection J8 (Jumper). Slide black cover over the jumper, this will then increase upward force. Reassemble control box cover and test.
Check door still operates through full open/close cycle, without reversing, and closes firmly.
N.B.: A courtesy light comes on at opening and closing and stays on for approximately 3 minutes before turning off automatically.

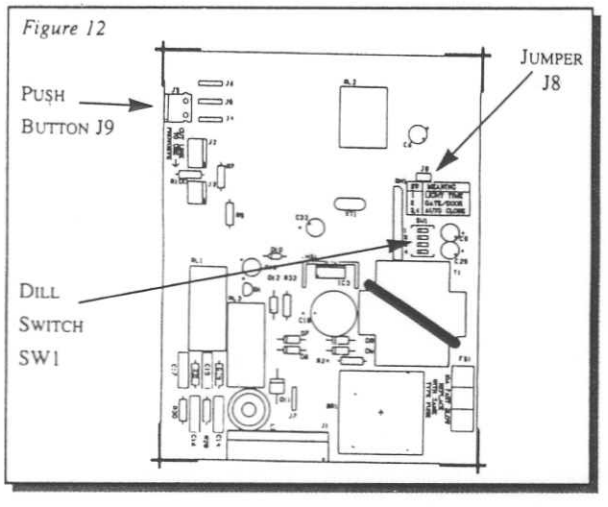
Coding Control Box And Handset/s

Refer separate coding instructions enclosed.

Connecting Wall Switch To Operator

Turn power off to Control Box Connect Bell Wire to Logic Board inside Control Box. (Refer Figure 12). Use screw terminal J9 After running Bell Wire to desired position, attach wall switch.

Figure 12



BOSS GARAGE DOOR OPERATORS *WARRANTY*

Dated: 8 May 2001

Boss Garage Door Operators hereafter referred to as the Manufacturer hereby warrants:

1. Garage Door Operators to be free from defects in material and workmanship for a period of five (5) years for motors and one (1) year for Electronics and Mechanics from date of purchase, if installed by an authorised reseller, otherwise if installed by the purchaser one (1) year will apply.
2. Garage Door Operators (Commercial and Industrial Application) to be free from defects in material and workmanship for a period of three (3) months from date of purchase.
3. Where the garage door operator has been returned to the manufacturer for Warranty repairs, all costs incurred in the return will be paid for by the purchaser, if in the opinion of the manufacturer the product is faulty, all defective parts will be replaced at no charge to the purchaser.
4. Proof of purchase must be given to the manufacturer at time of Warranty claim.
5. The manufacturer reserves the right to modify any existing or future products without incurring any obligation to incorporate such modification to products already manufactured or to which this Warranty may relate.
6. Warranty only applies if this product has been installed to the Manufacturers recommendations (in the opinion of Boss Garage Door Operators).
7. This Warranty is only for goods installed in Australia.
8. This Warranty does not apply to any defect, loss or damage arising or caused directly or indirectly by or as a result of:
   (i) Any defect (including defects in component parts or accessories) arising from or attributable to the failure to carry out normal preventive maintenance or adjustment itself.
   (ii) To any additional defect damage or deterioration arising from or attributable to the operation of the Operator after it is known to be defective.
9. Exclusions to Warranty Period:
   (i) Repair or Warranty Work - three (3) months warranty
10. Not included in Warranty:
   (i) Batteries.
   (ii) Fuses.
   (iii) Globes.
   (iv) Sensitivity adjustment.
11. Note: All Warranties will be void subject to:
   (i) Water damage and condensation.
   (ii) Power supply black out or surge.
   (iii) Act of God.
   (iv) Modification or Adjustment by unauthorised persons.
   (v) Any interference from radio (including citizen band radios) or any other electronic device.
   (vi) Preventative maintenance and regular servicing not undertaken.
   (vii) Account not paid in full by the purchaser.
12. Subject only to the provisions of the Trade Practices Act and any legislation of the State or Territory wherein the doors of the Manufacturer shall have been sold or installed (which may confer certain rights on consumers of goods and those rights by such legislation may be rendered incapable of exclusion) this Warranty supersedes and excludes all representations, warranties and conditions whether expressed or implied by law and the Manufacturer shall have no liability or otherwise than herein provided for any loss and damage (including consequential loss and damage, loss of use or profits) by reasons of delay, defective or faulty materials or workmanship, negligence or any act, matter or thing done permitted or omitted to be done by the Manufacturer.

WARRANTY

THIS WARRANTY FORM SHOULD BE COMPLETED AT TIME OF INSTALLATION.

This Warranty Form should be retained by the purchaser at all times and produced with the purchase docket by the Purchaser as proof of the purchase date.

PURCHASER'S NAME: _____

PURCHASER'S ADDRESS: _____

PURCHASED FROM: _____

INSTALLED BY: _____

INSTALLER'S ADDRESS: _____

INSTALLER'S SIGNATURE: _____

DRIVE UNIT SERIAL NO.: _____

Boss Garage Door Operators
27 Clinker Street, Darra, Qld 4076
Ph: (07) 3376 4988 Fax: (07) 3376 7071